| Index of Claims |  |
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| _ | Application/Control No. | Applicant(s)/Patent under Reexamination |
|---|-------------------------|---|
|   | 10/723,482              | HANES, DAVID H.                         |
|   | Examiner                | Art Unit                                |
|   | Shawki S. Ismail        | 2155                                    |

| J | Rejected | ı | (1 |
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| = | Allowed  | + |    |

| - | (Through numeral)<br>Cancelled |
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| ÷ | Restricted                     |

| N | Non-Elected  |
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| Cla      | aim Date                                     |           |              |                    |              |            |                |          | $\neg$   |                 |
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|          | 1<br>2<br>3<br>4<br>5<br>6<br>7              | 1         | _            | L_                 | _            | _          | _              |          |          | _               |
|          | 3  | Ц         | <u> </u>     | L                  | ┞-           | L          | _              |          |          |                 |
|          | 4  | Ц         |              |                    | <u> </u>     | <u> </u>   |                |          |          |                 |
|          | 5  |           | L            |                    | <u> </u>     | <u> </u>   | L              |          |          | _               |
|          | 6  | Ц         |              | <u> </u>           | _            | _          |                |          | $\Box$   | _               |
|          | 7_   | Ц         |              | L.                 | <u></u>      | _          |                |          |          | _               |
|          | 8  | Ц         | _            |                    | _            | L          |                |          | $\Box$   | _               |
|          | 9  | Ц         | <u> </u>     | <u> </u>           | _            | <u> </u>   | _              |          |          | $\Box$          |
|          | 10   | ╙         |              | $\vdash$           | <u> </u>     | <b>!</b>   |                | Щ        | Ш        | Щ               |
|          | 11   | Ц         | _            | <u> </u>           | $\perp$      | _          | <u> </u>       | <u> </u> | Щ        | Щ               |
|          | 12   | Ш         | <u> </u>     | <u> </u>           | $\vdash$     | <b> </b>   | <u> </u>       | <u> </u> | Щ        | Ц               |
|          | 13   | Ш         | _            | _                  | 1_           | <u> </u>   | _              | _        | <u> </u> | Ц               |
|          | 14   | Ц         | 1_           | $oldsymbol{\perp}$ | 1            | <b> </b> _ | $\vdash$       |          | $\Box$   | Ш               |
|          | 15   | Ц         | _            | 1                  | 1            | <u> </u>   | <u> </u>       |          |          | Ш               |
|          | 13<br>14<br>15<br>16<br>17<br>18<br>19<br>20 | $\coprod$ | <u> </u>     | _                  | <del> </del> | ┞-         | ₩              | _        | <u> </u> | Щ               |
|          | 17   | 11        | $\perp$      | 1                  | <u> </u>     | <u> </u>   | <del> </del> _ | <u> </u> | <b> </b> | Щ               |
| <u> </u> | 18   | $\sqcup$  | _            | 1_                 | 1            | <u> </u>   | <b> </b>       | L_       | _        | Щ               |
|          | 19   | Ц         | 1_           | <u> </u>           | ┺            | <u> </u>   | <u> </u>       | <u> </u> | _        | Щ               |
|          | 20   | Ц         | _            | _                  | 上            | 1_         | 丄              | <u> </u> |          | Щ               |
|          | 21<br>22<br>23                               | Ц         | _            | <u> </u>           | ╄.           | ↓_         | ↓_             | ▙        | ļ        | $\vdash$        |
| <u> </u> | 22   | Ш         | _            | ↓_                 | ╄-           | ↓_         | ├-             | ┝        | <u> </u> | $\vdash$        |
|          | 23   | ┦         | ╁.           | 4                  | ╄            | 1          | ┼              | -        | -        | $\vdash$        |
|          | 24<br>25<br>26<br>27<br>28<br>29<br>30       | ₽         | ↓_           | ╀╌                 | +            | +-         | -              | -        | ⊢        | $\vdash$        |
| <u> </u> | 25   | $\sqcup$  | 1            | ┼-                 | +-           | +-         | -              | -        | ├-       | Н               |
|          | 26   | Н         | +-           | ╄                  | ╀            | ╀          | ┼-             | ╁        | -        | $\vdash$        |
| <u> </u> | 27   | ┦         | -            | ╀                  | ╁            | +-         | ╁              | ├        | $\vdash$ | $\vdash$        |
| <u> </u> | 28   | ┦         | +            | +                  | +            | ╁          | +-             | ┼-       | ⊢        | Н               |
|          | 29   | H         | H            | +                  | +            | ╀          | ╁              | ╀        | ⊢        | Н               |
| <u> </u> | 30   | +         | 4            | +                  | +-           | +          | -              | +-       | +        | $\vdash \vdash$ |
| <u> </u> | 31   | ++        | +            | +                  | +-           | +          | +-             | ╀        | ╁        | ⊢⊦              |
| <u></u>  | 32<br>33                                     | #         | +            | +                  | ╁            | +          | +              | +        | $\vdash$ | $\vdash$        |
| <b>-</b> | 33   | ₩         | +            | +                  | ┿            | +-         | ╫              | ╁        | $\vdash$ | $\vdash$        |
| $\vdash$ | 34   | ₩         | +            | +                  | ╁            | +          | +              | +-       | ╁        | $\vdash$        |
| <u> </u> | 35   | -         | +            | +                  | +            | ╁╌         | ╂              | +-       | +        | $\vdash$        |
| -        | 36<br>37                                     | ╀         | +            | ╁                  | ╁            | ╁          | ╁              | ╁        | +-       | $\vdash$        |
| -        | 3/   | +-        | +            | +                  | ╁            | +          | +              | +        | +-       | $\vdash$        |
| <u> </u> | 38<br>39                                     | +         | +            | +-                 | +            | +          | +              | ╁        | +-       | Н               |
|          | _  | ╫         | ╁            | +                  | ╅            | +          | +              | +        | ╁╾       | Н               |
|          | 40   | #         | +            | +                  | +            | +          | +              | +        | ╁        | $\vdash$        |
| <b>—</b> | 41   | ╫         | ╁            | +                  | +            | +-         | ╁              | $\vdash$ | +        | Н               |
| $\vdash$ | 42   | ╫         | ╫            | +                  | +            | +          | +-             | ╁╌       | ╁╴       | $\vdash$        |
| <u></u>  | 43   | ╫         | +-           | +-                 | +            | +-         | +              | +-       | +        | $\vdash$        |
| -        | 45   | ╫         | +            | +                  | +            | +          | +              | 十        | +-       | Н               |
|          | 45   | +/        | +-           | +                  | +-           | +-         | +              | +        | +        | +               |
| -        | 46   | ╫         | +-           | +                  | +-           | +          | +-             | +        | +        | +-              |
| -        | 48   | ₩         | <del>/</del> | ╁                  | +            | +          | +              | +        | +-       | ╁               |
| $\vdash$ |  | ┯         | +            | +-                 | +            | +          | +-             | +        | ╁╴       | ╁               |
| <u> </u> | 49   | +         | +            | +                  | +            | +-         | +              | +-       | ╁        | +-              |

| Cla      | im             |          |              | _        |          | ate            |                    | _            |          |            |
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|          | _ [            |          |              |          |          |                |                    | -            | - 1      |            |
| Final    | Original       |          |              |          |          |                |                    |              |          |            |
|          | 51             | $\neg$   |              | $\neg$   |          | $\neg$         |                    |              |          |            |
|          | 52<br>53       |          | T            | T        |          |                |                    |              |          |            |
|          | 53             | T        | $\neg$       | П        |          |                |                    |              |          |            |
|          | 54<br>55       | Ī        |              | $\neg$   |          |                |                    |              |          |            |
|          | 55             |          |              | $\neg$   |          |                |                    |              |          |            |
|          | 56             | $\neg$   | $\neg$       |          |          |                |                    |              |          |            |
|          | 57<br>58       | П        |              | $\neg$   |          |                |                    |              |          |            |
|          | 58             | T        |              |          |          |                |                    |              |          |            |
|          | 59             |          |              |          |          |                |                    |              |          |            |
|          | 60             |          |              |          |          |                |                    |              |          |            |
|          | 61             |          |              |          |          |                |                    |              |          |            |
|          | 62             |          |              |          |          |                |                    |              |          |            |
|          | 63             |          |              |          |          |                |                    |              |          |            |
|          | 64             |          | $\Box$       |          |          |                |                    |              | ]        |            |
|          | 65             |          | $\Box$       |          |          |                |                    |              |          |            |
|          | 66             |          | $\Box$       |          |          |                | $oxedsymbol{oxed}$ |              |          |            |
|          | 67             |          |              |          |          |                | L                  |              |          |            |
|          | 68             |          |              |          |          |                |                    |              |          |            |
|          | 69             |          |              |          | _        |                |                    |              |          |            |
|          | 70             |          |              |          |          |                | L                  |              |          | _          |
|          | 71<br>72       |          |              |          |          |                |                    |              |          |            |
|          | 72             |          |              |          |          |                | L                  |              |          |            |
|          | 73             |          |              |          |          | L              | <u> </u>           |              |          |            |
|          | 74             | Ш        |              |          |          | <u>L</u>       | _                  |              |          | <u>L</u> . |
|          | 73<br>74<br>75 |          |              |          |          | <u> </u>       | _                  |              |          |            |
|          | 76<br>77       | Щ        | _            |          | _        |                | <u> </u>           |              | _        | _          |
|          | 77             |          | _            |          | _        | <u> </u>       | ╙                  | _            |          | -          |
| <u> </u> | 78             |          | _            |          |          | L              | <u> </u>           | _            |          | _          |
|          | 79             |          | _            |          | _        | _              | <u> </u>           | _            | <u> </u> | <u> </u>   |
| <u> </u> | 80             | Ш        | _            |          | <u> </u> | ├              | ⊢                  | ┡            | _        | <u> </u>   |
|          | 81             | Н        |              |          | _        | -              | ├                  | <u> </u>     | <u> </u> |            |
| <u> </u> | 82             | Ш        | _            |          | <u> </u> | ├              | <del> </del>       | ├            | -        | $\vdash$   |
|          | 83             | $\vdash$ | $\vdash$     | _        | $\vdash$ | ⊢              | -                  | <del> </del> |          | -          |
|          | 84             |          |              | _        | $\vdash$ | <del> </del> — | $\vdash$           | ├            | -        | $\vdash$   |
| <u> </u> | 85             | ⊢        | $\vdash$     | _        | -        | $\vdash$       | $\vdash$           | ├            | -        | ⊢          |
| ļ        | 86             | -        | Н            |          | -        | +-             | +-                 | ┼-           | -        | -          |
| <u> </u> | 87             |          | $\vdash$     | _        | -        | ╁              | +-                 | $\vdash$     | -        | ╁          |
| -        | 88             | -        | <sup> </sup> |          | ╁        | +-             | $\vdash$           | ⊢            | ⊢        | $\vdash$   |
| -        | 89<br>90       | $\vdash$ | $\vdash$     | -        | $\vdash$ | -              | +-                 | 1-           | ╁        | ┢          |
|          |                |          |              | -        | $\vdash$ | +-             | +-                 | ╁╴           | 1        | $\vdash$   |
| -        | 91             | -        | <del> </del> | -        | $\vdash$ | +-             | +                  | +-           | +-       | $\vdash$   |
| <u> </u> | 93             | +-       | $\vdash$     | -        | ╁        | +              | +                  | $\dagger$    | $\vdash$ | $\vdash$   |
| -        | 94             | -        | -            | -        | +        | +-             | ╁╌                 | ╁╌           | +-       | H          |
| -        | 95             | +        | $\vdash$     | $\vdash$ | $\vdash$ | ╁╌             | +                  | +-           | $\vdash$ | ┢          |
| -        | 96             | $\vdash$ | -            | -        | $\vdash$ | ╁              | +                  | +            | ╁        | t          |
| -        | 97             | $\vdash$ | $\vdash$     | H        | ╁╌       | +              | +-                 | +            | H        | ۲          |
| -        | 98             | $\vdash$ | $\vdash$     | $\vdash$ | $\vdash$ | +              | +                  | †            | 1        | T          |
| -        | 99             | $\vdash$ | -            | $\vdash$ | $t^{-}$  | +              | 1                  | T            | 1        | T          |
| <u> </u> | 33             | ₩        | -            | -        | +        | +-             | +-                 | +-           | +        | +-         |

|          |   |              |           |  | _            | _        | _            |  |          |           |          |
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| Cla      |   |              |           | ,  | 무            | ate      | <del>)</del> | _  |          | $\dashv$  |          |
| Final    | Original  |              |           |  |              |          |              |  |          |           |          |
|          | 101   |              |           | <del>                                     </del> | T            | 1        |              |  |          |           |          |
|          | 102   |              |           | Γ  | T            | ╗        |              |  |          | $\neg$    |          |
|          | 103   |              |           |  | Τ            |          |              |  |          |           |          |
|          | 103<br>104<br>105   |              |           |  | L            |          |              |  |          |           | ᆜ        |
|          | 105   |              |           | L  |              |          |              |  |          |           |          |
|          | 106   |              |           |  | L            | _        |              |  |          |           | ᅴ        |
|          | 106<br>107  | Ш            |           | L  | ╀            | _        |              | _  |          |           | _        |
|          | 108<br>109  |              |           | L  | 1            |          |              | _  |          |           | -        |
|          | 109   |              | _         | ┝  | +            | _        |              |  | _        | -         | _        |
|          | 110   | _            | _         | ┞  | +            |          |              |  | H        | $\vdash$  | $\dashv$ |
|          | 1111  | $\vdash$     | -         | -  | +            | $\dashv$ |              |  | H        | $\vdash$  | $\dashv$ |
|          | 110<br>111<br>112<br>113  | $\vdash$     | $\vdash$  | ╀  | +            | 4        |              | -  | -        | $\vdash$  | $\dashv$ |
|          | 113   | -            | $\vdash$  | ⊢  | +            | -        | -            | <del>                                     </del> | $\vdash$ | -         | $\dashv$ |
|          | 114<br>115<br>116<br>117  |              | -         | +  | +            | -        | -            | <del> </del>                                     | $\vdash$ | -         | $\dashv$ |
|          | 116   | -            | -         | ╀╌   | ╁            | _        |              | ├─   | -        |           | $\dashv$ |
|          | 117   | -            |           | $\vdash$   | t            |          |              |  | -        |           | 一        |
|          | 118<br>119<br>120<br>121  | -            |           | -  | †            |          | _            | T  | ╁╴       |           |          |
|          | 119   | -            | Н         | +-   | t            |          | _            |  |          |           |          |
|          | 120   |              | Γ         | T  | †            | _        |              |  | Г        |           |          |
| _        | 121   |              |           | $\top$   | 1            | _        |              |  |          |           |          |
|          | 122   |              | Г         | Τ  | T            |          |              |  |          |           |          |
|          | 123   |              |           |  | Τ            |          |              |  |          |           |          |
|          | 124   |              |           | L  |              |          |              | _  | 丄        | L         | Ш        |
|          | 125   |              |           | _  | 1            |          |              |  | _        | <u> </u>  | Щ        |
|          | 126   | _            | <u> </u>  | _  | 4            |          | _            | _  | _        | <u> </u>  | Н        |
|          | 122<br>123<br>124<br>125<br>126<br>127<br>128<br>129<br>130<br>131<br>132 | _            | L         | 1-   | 4            |          | _            | <u> </u>   | ┡        | ┞         | Н        |
|          | 128   | <del> </del> | ┞         | -  | +            |          | <u> </u>     | ╀  | <u> </u> | ┢         | -        |
|          | 129   | -            | ⊢         | ╀  | +            |          | -            | ╀  | ├-       | -         | Н        |
|          | 130   |              | ┝         | ╀  | +            |          | H            | ┼─   | -        | ╁         | Н        |
| -        | 131   | ┢            | -         | ╁  | +            | _        | ⊢            | ╁  | $\vdash$ | ├         | Н        |
| <u> </u> | 132   | ╁            | ┝         | +  | +            |          | ├            | ╁╌   | ╁        | ╁         | H        |
| $\vdash$ | 133<br>134  | +-           | +         | +  | +            |          | $\vdash$     | +  | +        | +         | $\vdash$ |
| -        | 135   | $\vdash$     | t         | $^{+}$   | +            | _        | $\vdash$     | 1  | $\vdash$ | 1         | Н        |
| <b> </b> | 135<br>136  | 1            | $\dagger$ | +  | †            |          | _            | T  | T        | $\vdash$  |          |
|          | 137   | T            | ✝         | †=   | 7            | _        | $\vdash$     | †  | T        | 1         |          |
|          | 138   | $\top$       | T         | 1  | 7            | _        |              |  | Γ        |           |          |
|          | 138<br>139  |              |           | T  | 7            | _        |              | 1_   |          | $\coprod$ |          |
|          | 140   | T            | Γ         | T  | _            | _        | Γ            | L  |          |           |          |
|          | 141   |              | Γ         | Ι  | $\int$       | _        |              |  |          |           |          |
|          | 142   |              |           | Ι  | I            | _        |              |  | L        |           | $\Box$   |
|          | 143   |              |           | I  |              |          | L            | 上  | $\perp$  | _         | ļ        |
|          | 144   |              | $\perp$   | Ţ  | _            |          | L            |  | 1        | 1         | 1_       |
|          | 145   |              | L         | $\perp$  | $\downarrow$ | _        | L            | _  | $\perp$  | ╀         | 1_       |
| <u></u>  | 146   | 1_           | ╀         | 1  | 4            |          | 1            | +-   | $\vdash$ | 1-        | _        |
|          | 147   | $\perp$      | L         | 4  | 4            |          | 1            | $\perp$  | +        | +         | $\vdash$ |
| <u></u>  | 148   |              | 1         | +  | 4            | _        | $\vdash$     | +  | +        | +         | ┼        |
| L_       | 149   |              | +         | +  | _            |          | $\vdash$     | +  | +        | +         | ┼-       |
| L        | 150   |              |           | _L   | _]           | _        |              |  |          |           |          |

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